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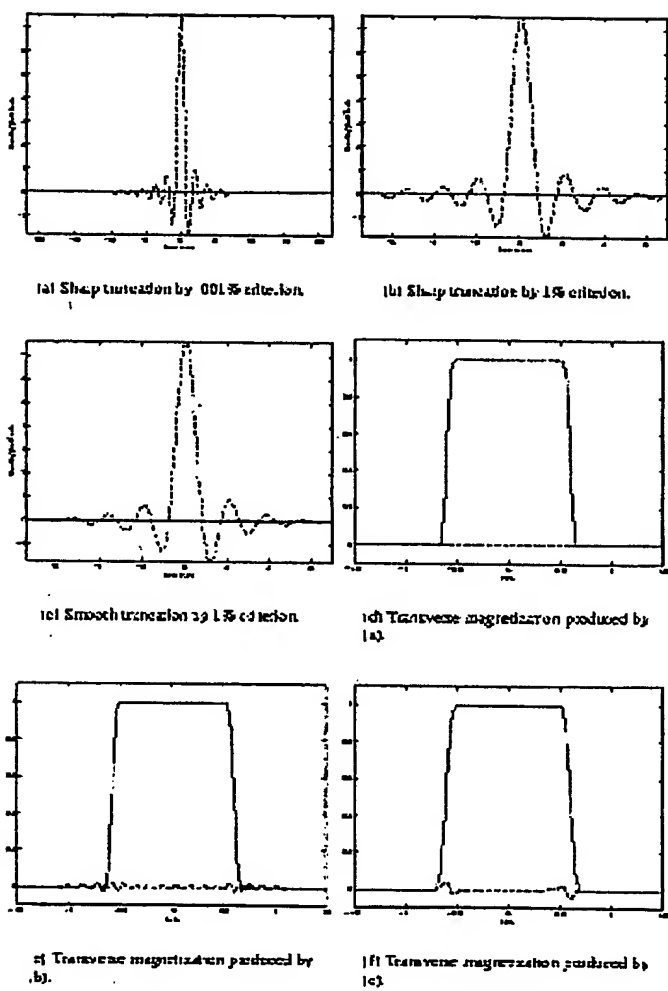


FIGURE 1

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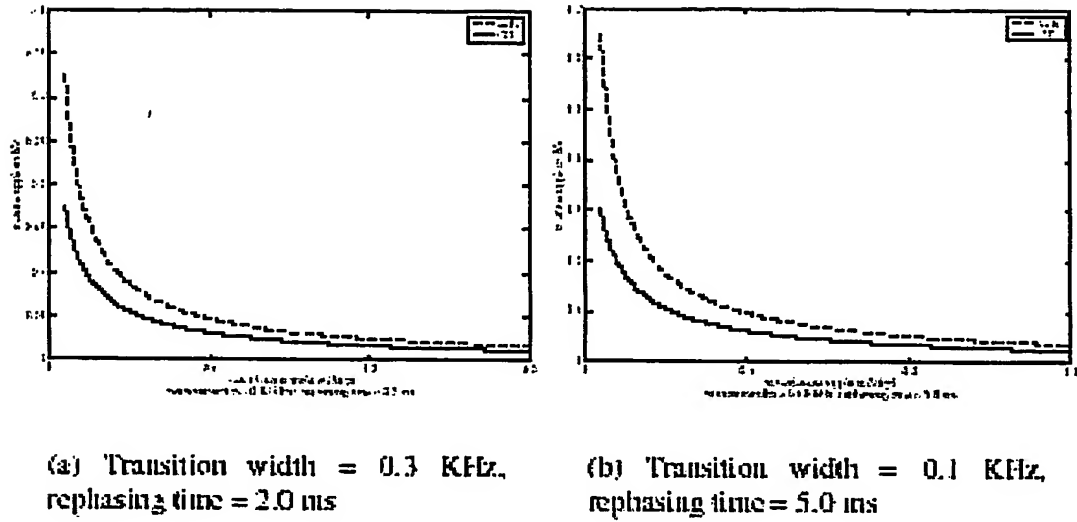


FIGURE 2

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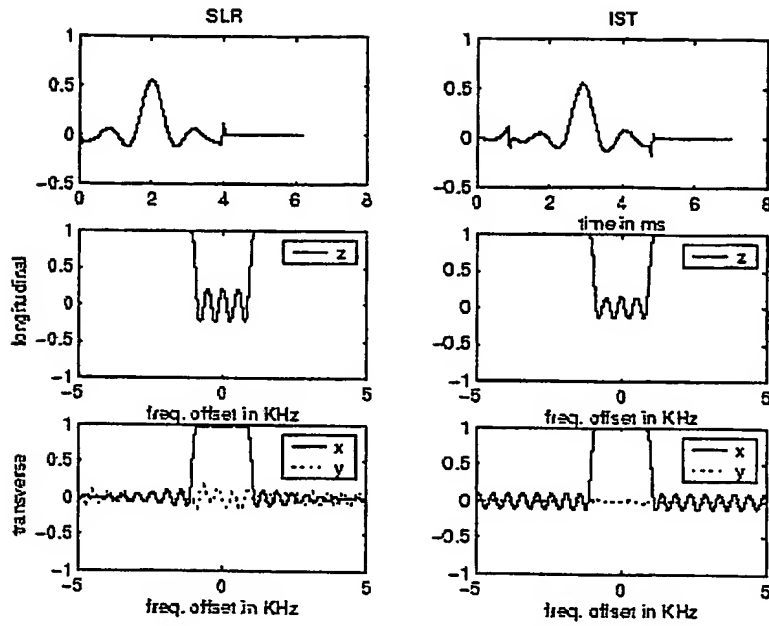


FIGURE 3(a)

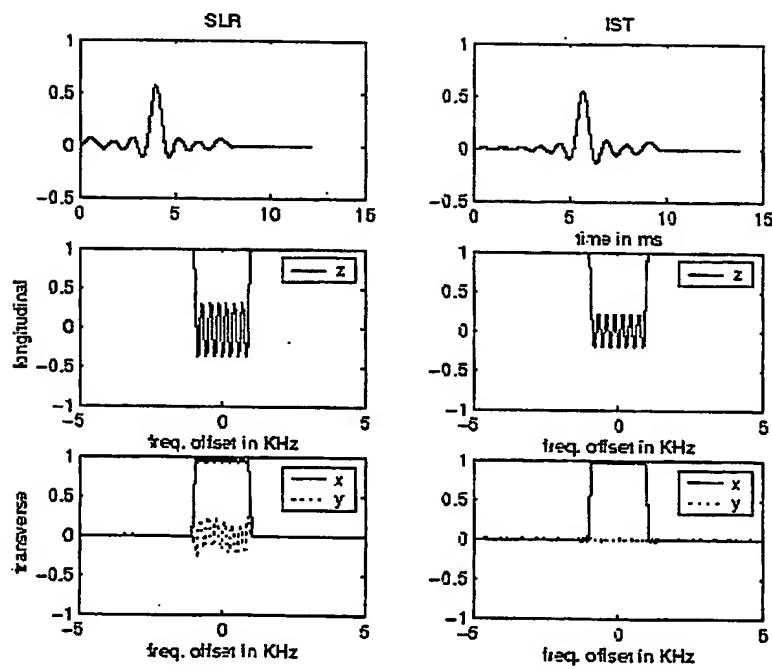
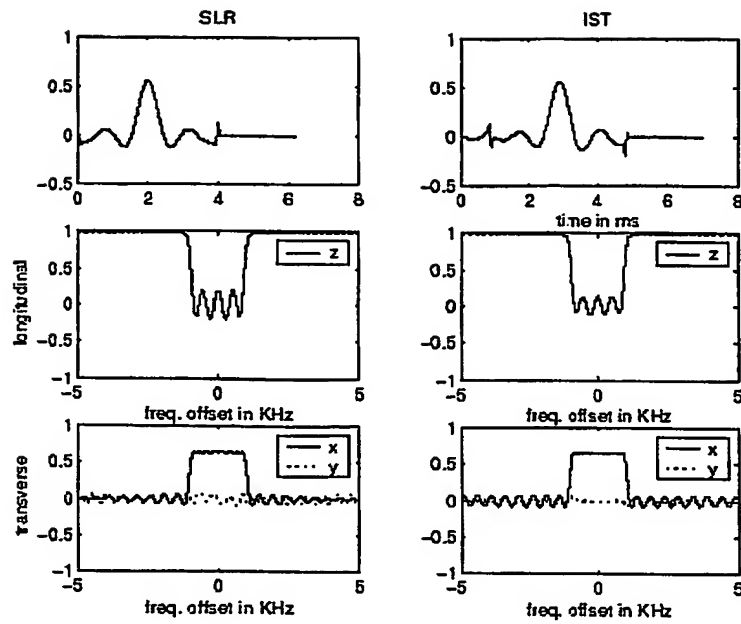
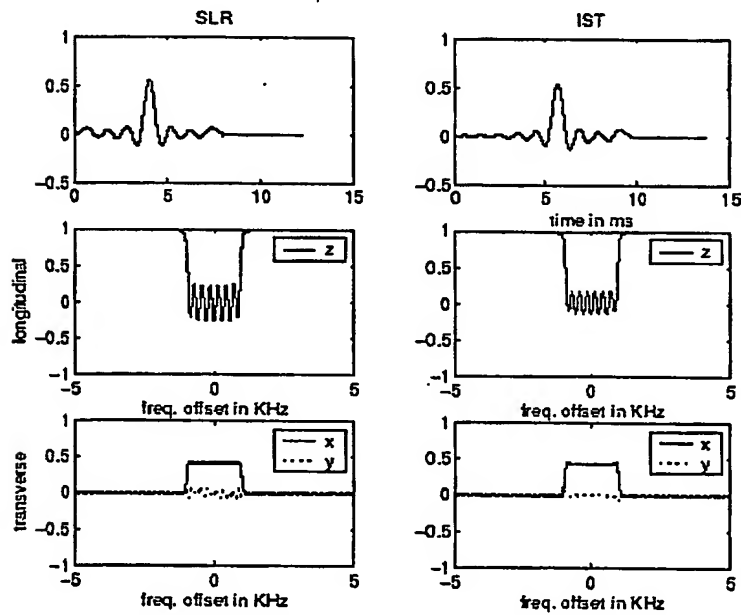


FIGURE 3(b)

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(a)  $T_2 = 10$  ms for a  $90^\circ$  pulse with 2 ms rephasing time,  $\delta_2 = 0.1$  and 0.2 KHz transition width



(b)  $T_2 = 10$  ms for a  $90^\circ$  pulse with 4 ms rephasing time,  $\delta_2 = 0.01$  and 0.15 KHz transition width

FIGURE 4

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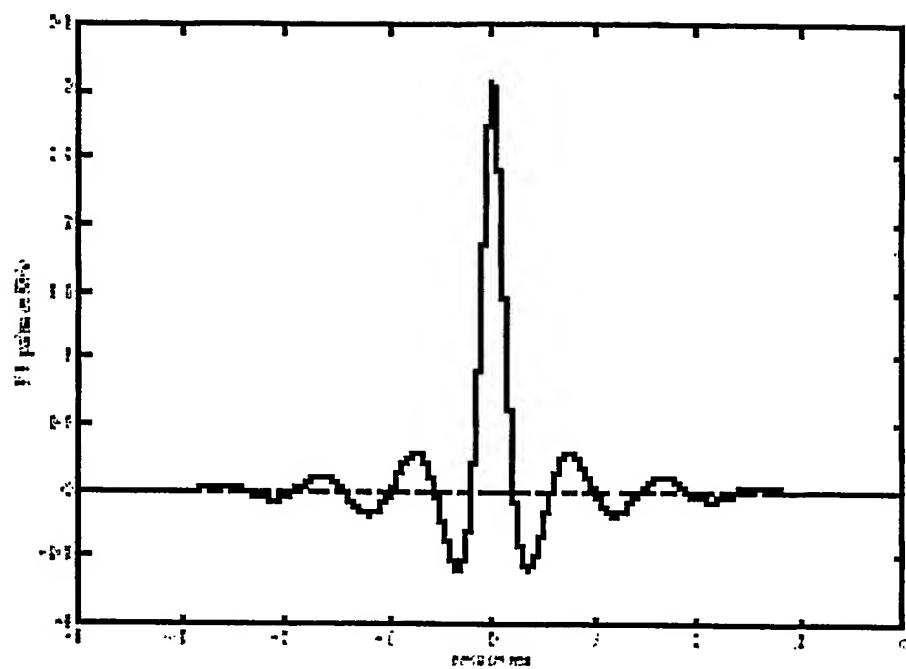


FIGURE 5(a)

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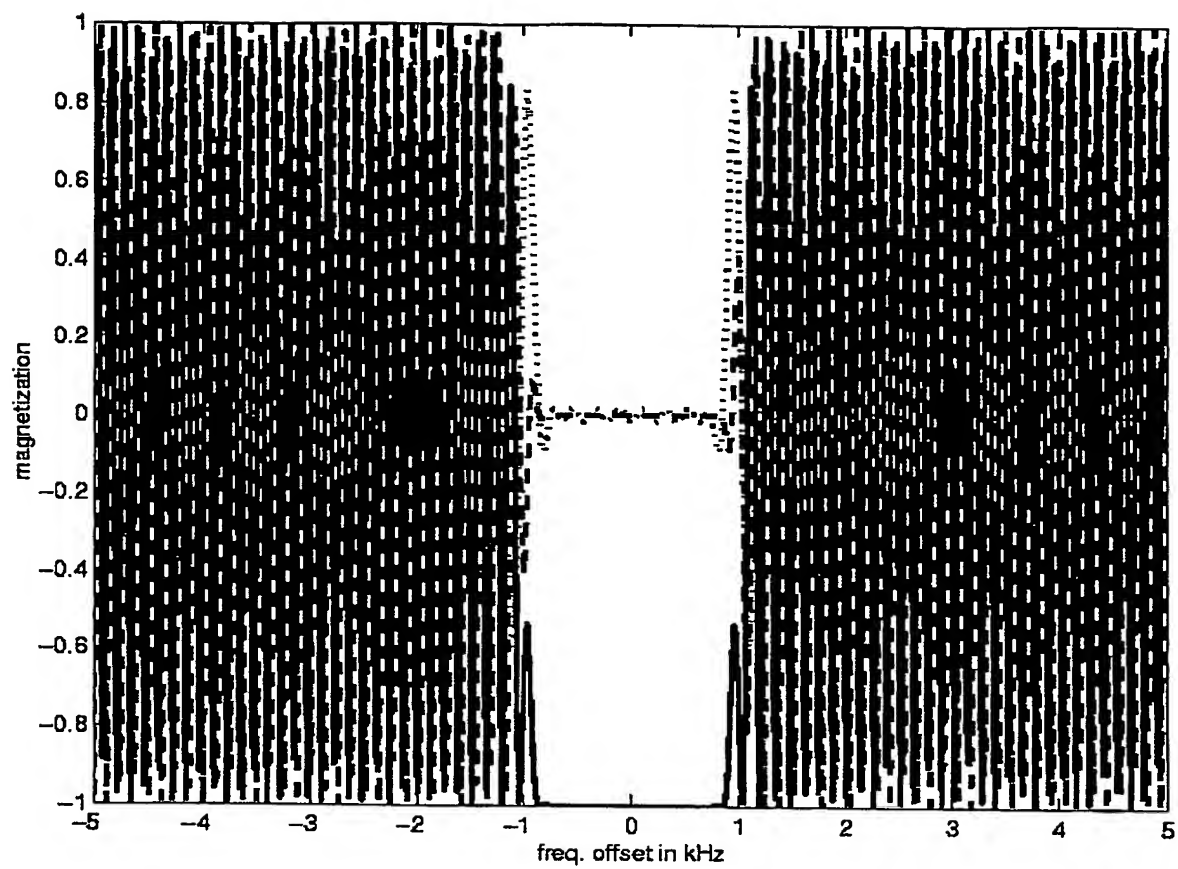


FIGURE 5(b)

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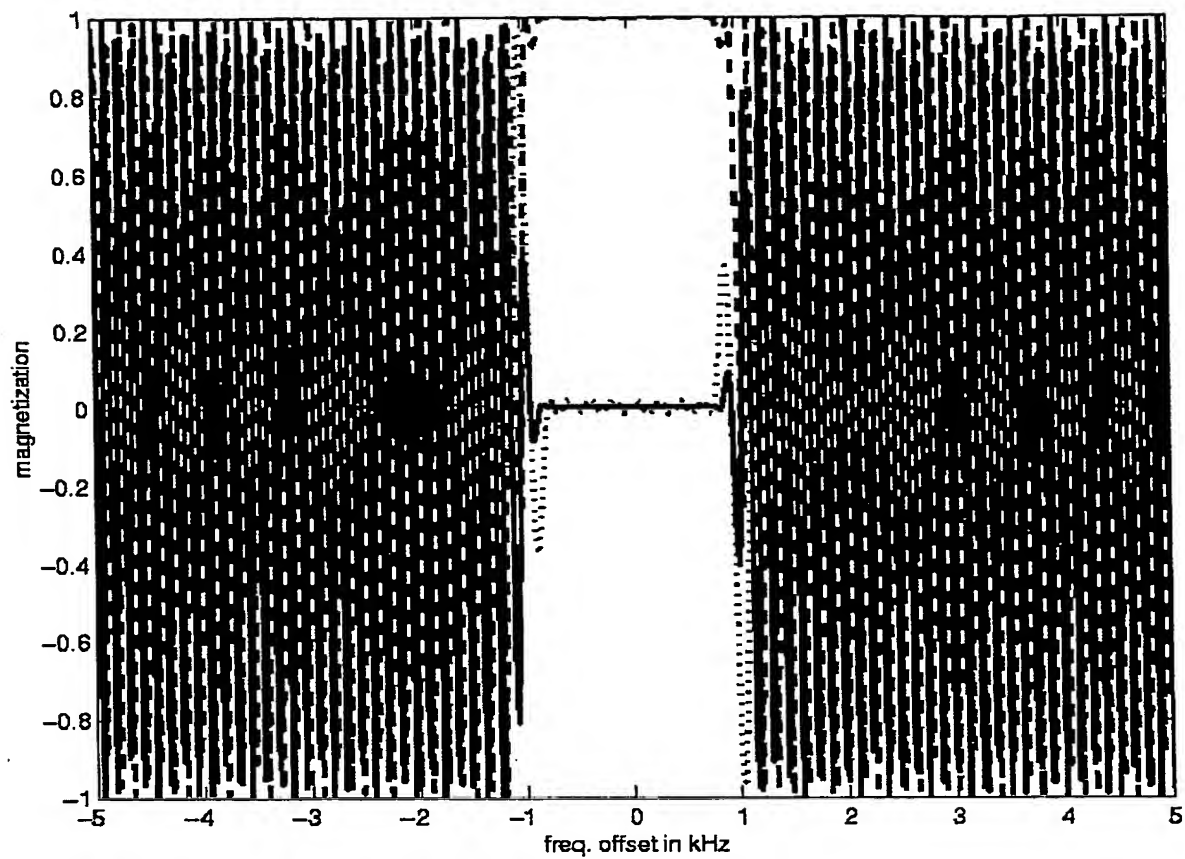


FIGURE 5(c)

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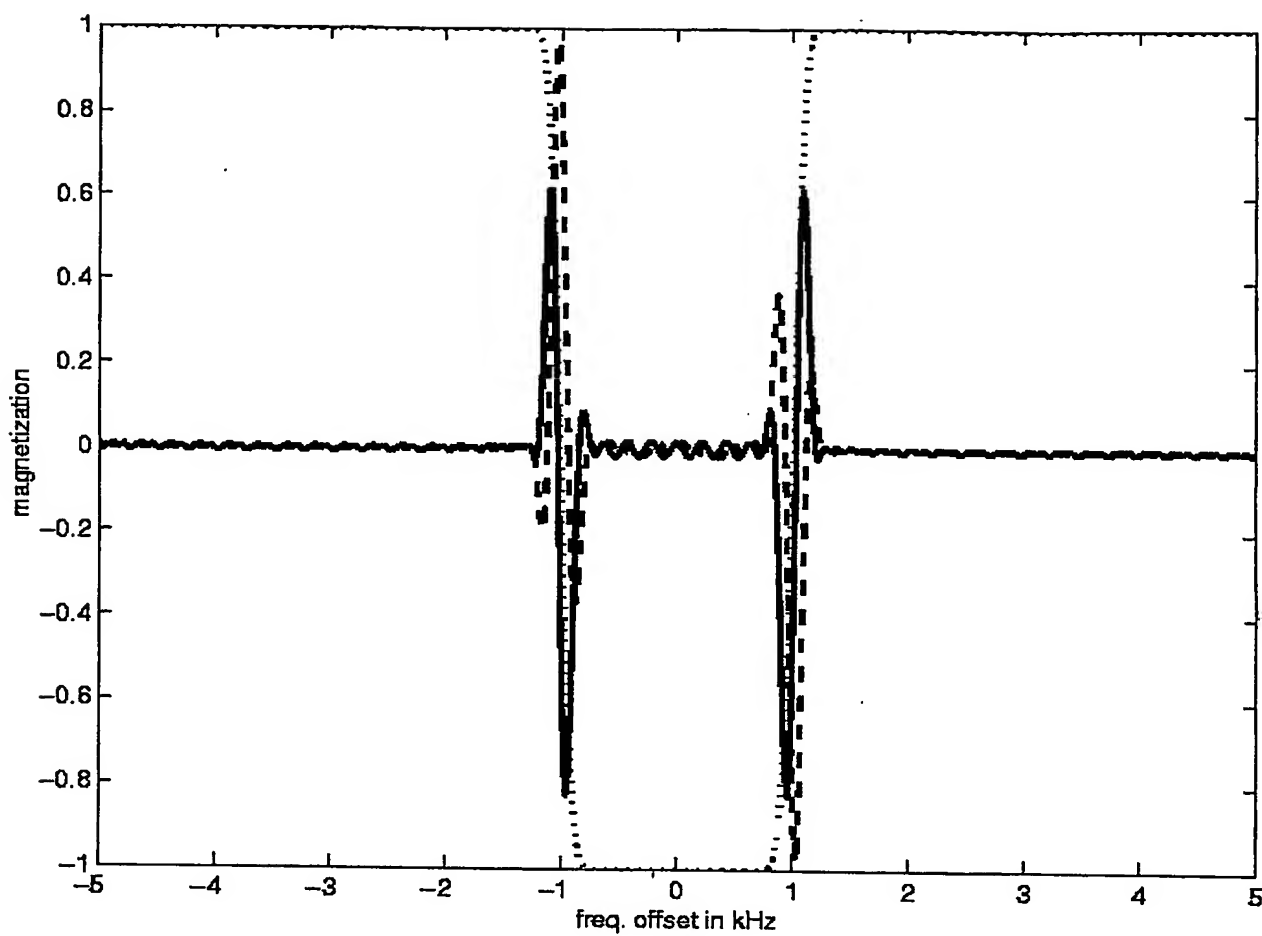


FIGURE 5(d)

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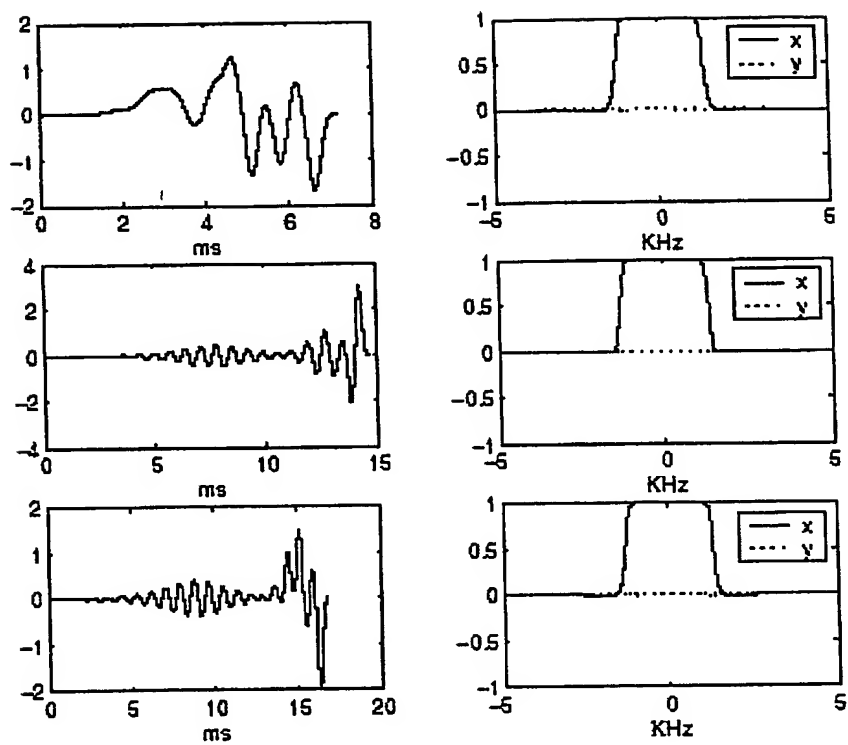


FIGURE 6

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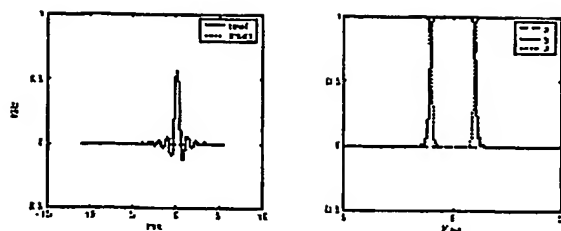
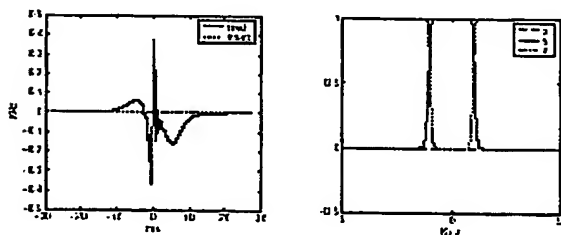
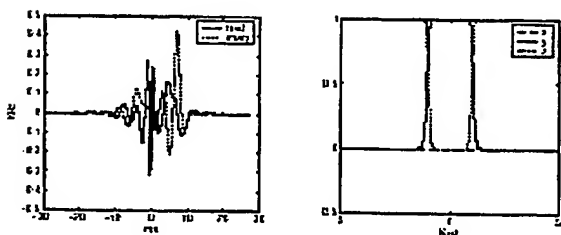
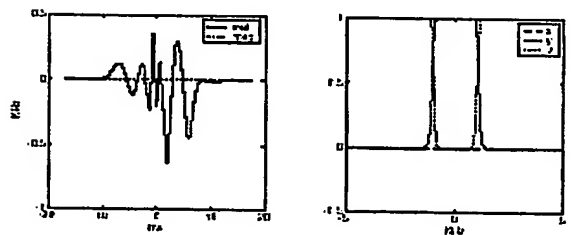
(a) The minimum energy pulse with magnetization profile  $M$ .(b) The pulse with magnetization profile  $M$ , and a bound state at  $0.5i$  with norming constant 1.0.(c) The pulse with magnetization profile  $M$ , and bound states at  $0.5i + 1.4$ , and  $1.0i - 1.0$ , with norming constants: 1, and  $-10$ .(d) The pulse with magnetization profile  $M$ , and bound states at  $i - 1.1$ , and  $i + 1$ , and norming constants 1.2, and 1.

FIGURE 7

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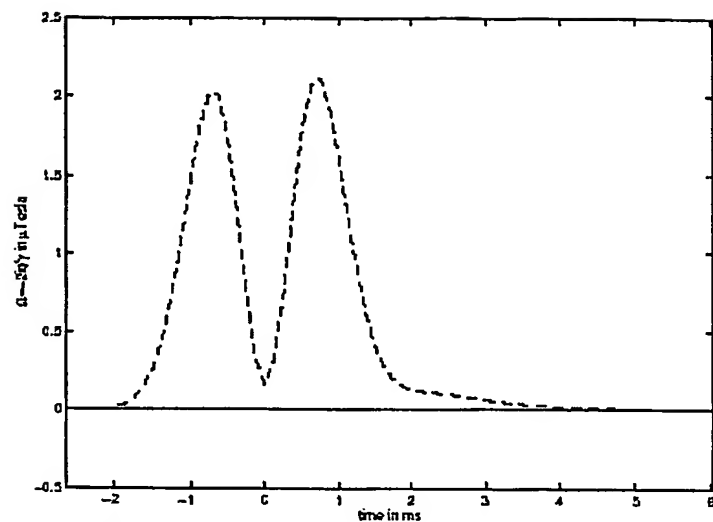


FIGURE 8 (a) Minimum energy pulse.

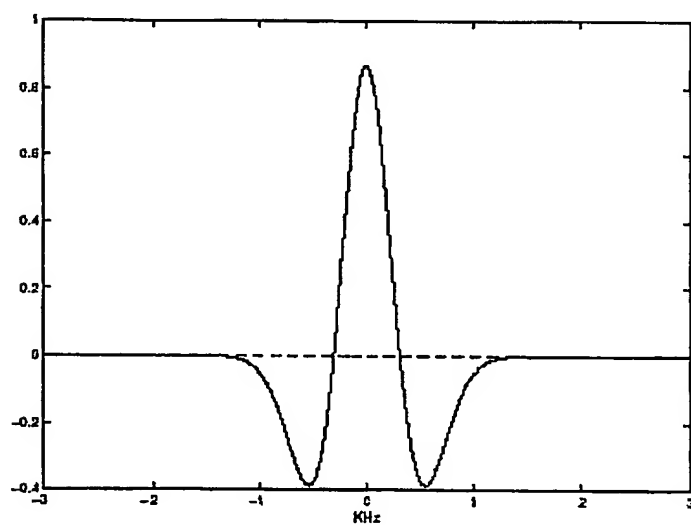


FIGURE 8(b) Transverse magnetization profile.